

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/300,482

DATE: 09/15/2000

TIME: 10:50:56

Input Set : A:\phosphoglucseq.rpt

Output Set: N:\CRF3\09152000\I300482.raw

*see p.5 #4*  
**ENTERED**

```

2 <110> APPLICANT: Cheikh, Nordine
3   Liu, Jingdong
4   Peschke, Virginia M.
6 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With The
7   Phosphogluconate Pathway
9 <130> FILE REFERENCE: 04983.0031.US01/38-21(15365)B
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/300,482
C--> 11 <141> CURRENT FILING DATE: 1999-04-28
11 <160> NUMBER OF SEQ ID NOS: 699
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 233
15 <212> TYPE: DNA
16 <213> ORGANISM: Zea mays
18 <400> SEQUENCE: 1
20 gtttttcgag ttagtagaat atgttagtgg ctctatgat aggggtggaag gatttgagtt   60
22 attgaatgag gcaatctctg agtatgagac ttcagaaaac aatgactcgg gaagctaccg   120
24 cagattatatt tatttggcat tgctccatc agtctaccca tcagtatgcg agatgataag   180
26 atcatattgc atgagtccat cttcacacac cggttggaca aggggtattg ttg         233
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 180
31 <212> TYPE: DNA
32 <213> ORGANISM: Zea mays
34 <400> SEQUENCE: 2
36 tcgttcggca gcagcaacga ggtgctggat gggacgccga cgggagatgg ggcaccgggg   60
38 cagggggcagc ggggagcgag caccgtcagc atcacggtcg tcggcgccctc cggcgacctc   120
40 gccaaagaaga agatcttccc gccctcttc gccttggtct acgagggctg gctcccgag   180
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 137
45 <212> TYPE: DNA
46 <213> ORGANISM: Zea mays
48 <400> SEQUENCE: 3
50 cacagatctt gataggcca ctaatgagct tgtgatacgt gtgcaaccgg atgaagcaat   60
52 ttacctaaag attaacaaca agattcctgg tctcggtatg cgactagata ggagtaactt   120
54 gaatctccat tatgccc
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 263
59 <212> TYPE: DNA
60 <213> ORGANISM: Glycine max
62 <223> OTHER INFORMATION: unsure at all n locations
W--> 63 <400> SEQUENCE: 4
65 gaagcacttt tggatgttgc gtcattgtct gcaagcagtg ctcagaccca gaagggatgg   60
67 aatcgcataa tatttgagaa gccatttggc ttgatgcac ttcttccca taggctgaca   120
W--> 69 caatatcttc tttcaaaact tcaggaaaag caaatatata gaattganca tctactagga   180
W--> 71 aggaatcnca gtnaaaatcc tncagggtta agggtttcaa annnagnttt tgagccacct   240
W--> 73 tngagnngna cntnnnnnga nna
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 259

```

RAW SEQUENCE LISTING                      DATE: 09/15/2000  
 PATENT APPLICATION: US/09/300,482        TIME: 10:50:56

Input Set : A:\phosphoglucseq.rpt  
 Output Set: N:\CRF3\09152000\I300482.raw

```

78 <212> TYPE: DNA
79 <213> ORGANISM: Glycine max
81 <223> OTHER INFORMATION: unsure at all n locations
W--> 82 <400> SEQUENCE: 5
W--> 84 ctgtgttgag ttttcnanc ttaaaaagac tntctcttct ctctcgtctc tttctctccc 60
W--> 86 tgangcanna nancattagc atgcanancc agagtgggtc tagtaatccg gtgctgctag 120
W--> 88 agntgggaa ctagtgaatg gcatatcgag cgaagatcta gcttcggcac tgaatncccc 180
W--> 90 ttagcaatan aggcangcca tgtgnctgaa actngtcact ctctattgtn gtgcttgggc 240
W--> 92 cttntgggga tcttgctaa 259
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 284
97 <212> TYPE: DNA
98 <213> ORGANISM: Glycine max
100 <223> OTHER INFORMATION: unsure at all n locations
W--> 101 <400> SEQUENCE: 6
W--> 103 tggaatcgca taatatitga naagccattt ggctttgatg cactttcttc ccataggetg 60
W--> 105 acacaatata ttttttcaaa ctttcaggaa aagcanatat atagaattga tcanctacta 120
W--> 107 ggaagggaatc ncattgnaaa tcttacagtt tnaaggtttt caaatctagt ttttgagcca 180
W--> 109 ctttggagtc gtacttanat aagataatgt agcaggncat ttatcagagg ncttggctgt 240
W--> 111 gcatcctggg aagntattcn ntggctatgg gatnatccgt ganc 284
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 253
116 <212> TYPE: DNA
117 <213> ORGANISM: Glycine max
119 <223> OTHER INFORMATION: unsure at all n locations
W--> 120 <400> SEQUENCE: 7
W--> 122 gagtgcgtga agaaaacacc aactgttttn agttttccaa ccttaaaaag annnnnnnnn 60
W--> 124 nnnnnnnnnn nnnnnnnnnn nnnngaagcaa aanaanatta gcatcaaaac cagagtgggt 120
W--> 126 ctagtaatcc ggnngctgcta gaggatggga actagtnaat ggcataatga gcgaagatct 180
128 agcttcggca ctgaatcccc cttagcaaga gaggcaggaa atgtgcctga aactgggtca 240
130 ctctctattg ttg 253
133 <210> SEQ ID NO: 8
134 <211> LENGTH: 137
135 <212> TYPE: DNA
136 <213> ORGANISM: Glycine max
138 <400> SEQUENCE: 8
140 ccaggcagta tataagacat ggacagttag tattctcaga agattttggc actgaaggac 60
142 gtggcgggta ctttgacat tatggatca tgagagacat tatgcagaat catttacttc 120
144 aaatactagc actcttt 137
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 287
149 <212> TYPE: DNA
150 <213> ORGANISM: Glycine max
152 <223> OTHER INFORMATION: unsure at all n locations
W--> 153 <400> SEQUENCE: 9
155 caaccttaaa agactctctt ttctctctct gaactctgaa gcaaaaacac attaccagag 60
157 tgggtctagt aattcagtc tgctagaaga tggaaactag tgaatggcat atcgagcgaa 120
W--> 159 gatctagctt cggctctgaa tcccccttag caaganangc aggaaatgtg cctganactg 180
W--> 161 ggtcactctc tattgtgggtg cttggngctt ctggtgatct tgctaagaag aagacatttc 240

```

## RAW SEQUENCE LISTING

DATE: 09/15/2000

PATENT APPLICATION: US/09/300,482

TIME: 10:50:56

Input Set : A:\phosphoglucseq.rpt

Output Set: N:\CRF3\09152000\I300482.raw

```

163 ctgcactttt ccacctatac ctggcaggga ttcttaccac cagatga      287
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 251
168 <212> TYPE: DNA
169 <213> ORGANISM: Glycine max
171 <223> OTHER INFORMATION: unsure at all n locations
W--> 172 <400> SEQUENCE: 10
W--> 174 cttttctctc tctgaactct gaagcnaaac aacattacca gagtgggtct agtaattcag    60
176 tgctgctaga agatggaaac tagtgaatgg catatcgagc gaagatctag cttcggctct    120
178 gaatccccct agcaagagag gcaggaaatg tgcttgaaac tgggtcactc tctattgtgg    180
180 tgcttgggtgc ttctgggtgat ctgctaaga agaagacatt tctgcactt ttccacctat    240
W--> 182 acctgngnta c
185 <210> SEQ ID NO: 11
186 <211> LENGTH: 193
187 <212> TYPE: DNA
188 <213> ORGANISM: Glycine max
190 <223> OTHER INFORMATION: unsure at all n locations
W--> 191 <400> SEQUENCE: 11
193 gtttcagcta actctgcttc acttggtaat tgagtgggtc tagtaatccg gtgctgctag    60
195 aggatgggaa ctagtgaatg gcatatcgag cgaagatcta gcttcggcac tgaatcccc    120
W--> 197 tttagcaagat atgcaggaaan tgtgcctgaa actgggtcac tctctattgt tgtgcttggc    180
199 gcttctgggg atc
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 318
204 <212> TYPE: DNA
205 <213> ORGANISM: Zea mays
207 <223> OTHER INFORMATION: unsure at all n locations
W--> 208 <400> SEQUENCE: 12
W--> 210 gcgagccaag agcgtggaga ntngatggaa ccttaacctc gcagagcttg ccaggatntg    60
212 gaagggcggc tgcattatcc gtgcgaggtt ccttgatagg atcaagagcg cgtacgacag    120
214 gaatcctgag ctcgccaatg gcgcagccat ttgaggaatt ggttggtatg agcagggatg    180
216 tttctgctt tgggtgattt ctctctgtgg gttatcttc cttttactat tgttatcttt    240
218 atgcttctag atccaagtcg agtacttcga ataagtctgt actgtatggt tggcaagtga    300
220 agaacattgt gtagcttc
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 467
225 <212> TYPE: DNA
226 <213> ORGANISM: Zea mays
228 <223> OTHER INFORMATION: unsure at all n locations
W--> 229 <400> SEQUENCE: 13
231 ggccaagagc gcggagaaag gctgggggct caaccgctc gtccttcagc ccgctcagga    60
233 acctcgagtc caaggacgcc tcgatactag gagcgccac cgacagctcg gcggcctgct    120
235 gcaccgtcca ctccctgtc cctttcatcc cgtcttgtc aaggacctg tccaccaggt    180
W--> 237 agccatcgcc atgctcgtec ttgatgcaa agatgtcggc cgtgatctcn atcaagaagc    240
239 tcaggagctc gccctgttc cactcgaga acacctggtg cagctcactg ttggtgagct    300
W--> 241 taccgaccga cttgagaacg tcgtatgcct nggaaatcaa ctgcatactg gcatactcga    360
W--> 243 ttccgttggg gaaccatttt nacaaaantt ncccgatnca nctttngcca agtacgtnaa    420
W--> 245 acaaaanggc cactttttaa ggggccttta anaaancncc tttnnng
248 <210> SEQ ID NO: 14

```

RAW SEQUENCE LISTING                      DATE: 09/15/2000  
 PATENT APPLICATION: US/09/300,482        TIME: 10:50:56

Input Set : A:\phosphoglucose.rpt  
 Output Set: N:\CRF3\09152000\I300482.raw

```

249 <211> LENGTH: 410
250 <212> TYPE: DNA
251 <213> ORGANISM: Zea mays
253 <223> OTHER INFORMATION: unsure at all n locations
W--> 254 <400> SEQUENCE: 14
256 cccacgcgtc cgcgggtcatg gggcagaacc ttgccctcaa cattgcagag aaaggggttcc 60
258 ccattcttgt gtacaacagg acaacctcca aggtggacga gaccgtgcag cgtgccaaagg 120
260 cagaaggaaa ccttcccgtc tacggcttcc atgaccccg ctcctttgtg aagtccattc 180
262 agaagccacg ggtgggtgatc atgctcgtca aggccggcgc gccagttgac cagaccatcg 240
264 cgacgctcgc agctcacttg gagcagggcg actgcatcat cgatgggggg aacgagtggt 300
W--> 266 acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttgga 360
268 tgggtgtctc tggaggaaag gagggtgcc ccaacggccc gtccttgatg 410
271 <210> SEQ ID NO: 15
272 <211> LENGTH: 449
273 <212> TYPE: DNA
274 <213> ORGANISM: Zea mays
276 <400> SEQUENCE: 15
278 cccacgcgtc cgcccacgcg ttcgggtggt ttgacgggtg tggcatcgcc aattcaactc 60
280 cgcattctgca tcggcagcgc gccagctcca tagtgtagga ggagatggcg ctccacaagaa 120
282 tcggtcttgc tggccttgcg gtcattgggg agaaccttgc cctcaacatt gcagagaaaag 180
284 ggttcccatc ctctgtgtac aacaggacaa cctcaagggt ggacgagacc gtgcagcgtg 240
286 ccaaggcaga aggaacctt cccgtctacg gcttccatga ccccgcgctc tttgtgaagt 300
288 ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga 360
290 ccacgcgcgc gctcgcagct cacttgagc agggcgactg catcatcgat agggggaacg 420
292 agtgggtacga gaacacggag aggagggag 449
295 <210> SEQ ID NO: 16
296 <211> LENGTH: 410
297 <212> TYPE: DNA
298 <213> ORGANISM: Zea mays
300 <400> SEQUENCE: 16
302 ggcactttcc ctgcctgatt ggcgatttaa gcggtggggg aggggaaggcc gatggtcagt 60
304 gaaagagagt aggtggacgg acggtgctgg catcgccaat tcaactccgc atctgcatcg 120
306 gcagcgcgcc agctccatag tgtaggagga gatggcgctc acaagaatcg gtcttgctgg 180
308 ccttgcggtc atggggcaga accttgccct caacattgca gagaagggtt tccccatctc 240
310 tgtgtacaac aggacaacct ccaagggtga cgagaccgtg cagcgtgcca aggcagaagg 300
312 aaaccttccc gtctacggct tccatgacct cgcgtccttt gtgaagtcca ttcagaagcc 360
314 acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca 410
317 <210> SEQ ID NO: 17
318 <211> LENGTH: 409
319 <212> TYPE: DNA
320 <213> ORGANISM: Zea mays
322 <400> SEQUENCE: 17
324 aggtggccgg acggtggtgg catcgccaat tcaactccgc atctgaatcg gcaactcgga 60
326 gcgcgcgacg tccatagtgt aggaggagga gatggcgctc acaagaatcg gtcttgctgg 120
328 ccttgcggtc atggggcaga accttgccct caacattgca gagaagggtt tccccatctc 180
330 tgtgtacaac aggacaacct ccaagggtga cgagaccgtg cagcgtgcca aggcagaagg 240
332 aaaccttccc gtctacggct tccatgacct cgcgtccttt gtgaactcca ttcagaagcc 300
334 acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca tcgcgacgct 360
336 cgcagctcac ttggagcagg gcgactgcat catcgaatgg gggaacgag 409

```

## RAW SEQUENCE LISTING

DATE: 09/15/2000

PATENT APPLICATION: US/09/300,482

TIME: 10:50:56

Input Set : A:\phosphoglucose.rpt

Output Set : N:\CRF3\09152000\I300482.raw

```

339 <210> SEQ ID NO: 18
340 <211> LENGTH: 420
341 <212> TYPE: DNA
342 <213> ORGANISM: Zea mays
344 <400> SEQUENCE: 18
346 ggtggacgga cgggtgctggc atcgccaatt caacttcgca tctgcatcgg cagcgcgcca 60
348 gctccatagg aggagatggc gctcacaaga atcggtcttg ctggccttgc ggtcatgggg 120
350 cagaaccttg cctcaacat tgcagagaaa gggttcccca tctctgtgta caacaggaca 180
352 acctccaagg tggacgagac cgtgcagcgt gccaaaggcag aaggaaaacct tcccgcttac 240
354 ggcttccatg acccgcgctc ctttgtgaag tccattcaga agccacgggt ggtgatcatg 300
356 ctggtcaagg ccggcgcgcc agttgaccag accatcgcca cgctcgagc tcaactggag 360
358 cagggcgact gcatcatcga tagggggaac gagtggtagc aggacacgga gaggaggagg 420
361 <210> SEQ ID NO: 19
362 <211> LENGTH: 403
363 <212> TYPE: DNA
364 <213> ORGANISM: Zea mays
366 <400> SEQUENCE: 19
368 agcggacgcy tgggggacgg acggtgctgg catcgccaat tcaactccgc atctgcatcg 60
370 gcagcgcgcc agctccatag ttaggagga gatggcgctc acaagaatcg gtcttgctgg 120
372 ccttgcggtc atggggcaga accttgccct caacattgca gagaaagggt tccccatctc 180
374 tgtgtacaac aggacaacct ccaagggtga cgagaccgtg cagcgtgcca aggcagaagg 240
376 aaaccttccc gtctacggct tccatgaccc cgcgtccttt gtgaagtcca ttcagaagcc 300
378 acgggtggtg atcatgctcg tcaaggccgg cgcgccagtt gaccagacca tcgcgacgct 360
380 cgcagctcac tttgagcagg gcgactgcat catcgatggg ggg 403
383 <210> SEQ ID NO: 20
384 <211> LENGTH: 433
385 <212> TYPE: DNA
386 <213> ORGANISM: Zea mays
388 <400> SEQUENCE: 20
390 ggcactttcc ctgctgatt ggcgatttat agcgggtggg gagggaaggc ccatgggtcag 60
392 ggaagagag taggtggacg gacggtgctg gcatcgccaa ttcaactccg catctgcatc 120
394 ggcagcgcg cagctccata ggagagatg gcgctcaca gaatcgggtc tgcctggcctt 180
396 gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg 240
398 tacaacagga caacctccaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac 300
400 cttcccgctc acggtctcca tgaccccgcg tcccttgtag agtccattca gaagccacgg 360
402 gtggtgatca tgctgctcaa ggcggcgcg ccagttgacc agaccatcgc gacgctcgca 420
404 gctcacttgg agc 433
407 <210> SEQ ID NO: 21
408 <211> LENGTH: 209
409 <212> TYPE: DNA
410 <213> ORGANISM: Zea mays
412 <223> OTHER INFORMATION: unsure at all n locations
W--> 413 <400> SEQUENCE: 21
W--> 415 gcatctgcat cggcagcgcg ncagnnngnat aggaggagat ggcgctcaca agaatcggtg 60
W--> 417 ttgctggcct tgcggncatg ggcagaaacc ttgccctnaa cattgcagag aaagggnnan 120
W--> 419 ccatatgtgt gnacaacagg acaacctgca aggtngacna gaccgtncag ngngncnagg 180
W--> 421 cagaangana ccttangntt tannnattg 209
424 <210> SEQ ID NO: 22
425 <211> LENGTH: 271

```

FMI

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY                      DATE: 09/15/2000  
PATENT APPLICATION:    US/09/300,482              TIME: 10:50:57

Input Set : A:\phosphoglucose.rpt  
Output Set: N:\CRF3\09152000\I300482.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:63 M:283 W: Missing Blank Line separator, <400> field identifier  
L:69 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:69 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:69 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:69 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4  
L:71 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:71 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:71 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
M:340 Repeated in SeqNo=4  
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:73 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:73 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:82 M:283 W: Missing Blank Line separator, <400> field identifier  
L:84 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:84 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:84 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:84 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5  
L:86 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:86 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:86 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
M:340 Repeated in SeqNo=5  
L:88 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:88 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:88 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:90 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:90 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:90 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:92 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5  
L:92 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5  
L:92 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5  
L:101 M:283 W: Missing Blank Line separator, <400> field identifier  
L:103 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:103 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:103 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:103 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6  
L:105 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:105 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:105 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
M:340 Repeated in SeqNo=6  
L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:107 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:107 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:109 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6  
L:109 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:109 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:111 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6

VERIFICATION SUMMARY                      DATE: 09/15/2000  
PATENT APPLICATION:    US/09/300,482                      TIME: 10:50:57

Input Set : A:\phosphoglucose.rpt  
Output Set: N:\CRF3\09152000\I300482.raw

L:111 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6  
L:111 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:120 M:283 W: Missing Blank Line separator, <400> field identifier  
L:122 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:122 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7  
L:122 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
L:122 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7  
L:124 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:124 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7  
L:124 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
M:340 Repeated in SeqNo=7  
L:126 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7  
L:126 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7  
L:126 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7  
L:153 M:283 W: Missing Blank Line separator, <400> field identifier  
L:159 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9  
L:159 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9  
L:159 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9  
M:340 Repeated in SeqNo=9  
L:172 M:283 W: Missing Blank Line separator, <400> field identifier  
L:174 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10  
M:340 Repeated in SeqNo=10  
L:191 M:283 W: Missing Blank Line separator, <400> field identifier  
L:197 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11  
L:208 M:283 W: Missing Blank Line separator, <400> field identifier  
L:210 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
L:229 M:283 W: Missing Blank Line separator, <400> field identifier  
L:237 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13  
M:340 Repeated in SeqNo=13  
L:254 M:283 W: Missing Blank Line separator, <400> field identifier  
L:266 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14  
L:413 M:283 W: Missing Blank Line separator, <400> field identifier  
L:415 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:21  
M:340 Repeated in SeqNo=21  
L:430 M:283 W: Missing Blank Line separator, <400> field identifier  
L:432 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22  
M:340 Repeated in SeqNo=22  
L:465 M:283 W: Missing Blank Line separator, <400> field identifier  
L:471 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:24  
M:340 Repeated in SeqNo=24  
L:600 M:283 W: Missing Blank Line separator, <400> field identifier  
L:608 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
M:340 Repeated in SeqNo=32  
L:685 M:283 W: Missing Blank Line separator, <400> field identifier  
L:691 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37  
L:756 M:283 W: Missing Blank Line separator, <400> field identifier  
L:758 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:41  
M:340 Repeated in SeqNo=41  
L:1105 M:283 W: Missing Blank Line separator, <400> field identifier

## VERIFICATION SUMMARY

DATE: 09/15/2000

PATENT APPLICATION: US/09/300,482

TIME: 10:50:57

Input Set : A:\phosphoglucoseseq.rpt

Output Set: N:\CRF3\09152000\I300482.raw

L:1113 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:61  
L:1142 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1148 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:63  
M:340 Repeated in SeqNo=63  
L:1197 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1199 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:66  
M:340 Repeated in SeqNo=66  
L:1320 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1322 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:73  
M:340 Repeated in SeqNo=73  
L:1375 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1377 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:76  
M:340 Repeated in SeqNo=76  
L:1820 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1824 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101  
L:1861 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1875 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103  
L:1916 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1918 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:106  
M:340 Repeated in SeqNo=106  
L:1935 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1939 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:107  
M:340 Repeated in SeqNo=107  
L:2458 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2464 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:138  
M:340 Repeated in SeqNo=138  
L:2479 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2489 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:139  
M:340 Repeated in SeqNo=139  
L:2500 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2506 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:140  
L:2611 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2613 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:146  
M:340 Repeated in SeqNo=146  
L:2870 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2891 M:283 W: Missing Blank Line separator, <400> field identifier  
L:2912 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3097 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3134 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3721 M:283 W: Missing Blank Line separator, <400> field identifier  
L:3806 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4131 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4300 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4357 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4446 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4631 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4676 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4739 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4758 M:283 W: Missing Blank Line separator, <400> field identifier



## VERIFICATION SUMMARY

DATE: 09/15/2000

PATENT APPLICATION: US/09/300,482

TIME: 10:50:57

Input Set : A:\phosphoglucseq.rpt

Output Set: N:\CRF3\09152000\I300482.raw

L:4795 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4900 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4919 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4956 M:283 W: Missing Blank Line separator, <400> field identifier  
L:4975 M:283 W: Missing Blank Line separator, <400> field identifier  
L:5210 M:283 W: Missing Blank Line separator, <400> field identifier